

SEARCH REQUEST FORM

Access DB# _____

Scientific and Technical Information Center

Requester's Full Name: _____ Examiner #: _____ Date: _____
 Art Unit: _____ Phone Number 30 _____ Serial Number: _____
 Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____
 Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

STAFF USE ONLY

| | | |
|--|---------------------------|-----------------------------------|
| Searcher: <u>D. Schreder</u> | Type of Search | Vendors and cost where applicable |
| Searcher Phone #: <u>272-2526</u> | NA Sequence (#) <u>36</u> | STN _____ |
| Searcher Location: <u>Rensselaer A61</u> | AA Sequence (#) _____ | Dialog _____ |
| Date Searcher Picked Up: _____ | Structure (#) _____ | Questel/Orbit _____ |
| Date Completed: <u>9/11</u> | Bibliographic _____ | Dr. Link _____ |
| Searcher Prep & Review Time: <u>15</u> | Litigation _____ | Lexis/Nexis _____ |
| Clerical Prep Time: _____ | Fulltext _____ | Sequence Systems <u>CompuLink</u> |
| Online Time: <u>174</u> | Patent Family _____ | WWW/Internet _____ |
| | Other _____ | Other (specify) _____ |

SCORE OVER LENGTH SEARCHES

Attached is a score over length search. This search was developed to overcome limitations in most standard search systems which favor large sequences with high scoring, but lesser overall identity over smaller sequences with higher overall identity. This search is especially useful for relatively small nucleic acid or polypeptide target sequences (antisense, fragments, probes, primers, RNAi, epitopes, haptens, etc.) claimed functionally via a form of hybridization and/or identity language and having defined upper and lower polynucleotide and or polypeptide length limits.

The score over length search is performed by first running the query sequence using examiner-specified identity and polynucleotide or protein length limit parameters, and saving 65,000 hits and 0 alignments from each desired database. The resulting output is reformatted using a Microsoft Word macro and is imported into Excel. The summary table data are then sorted by the ratio of score of each hit sequence divided by its length and the accession numbers for all hits below the examiner's desired score over length parameters are deleted. The remaining accession numbers are used to pull the corresponding sequences from the databases into subdatabases enriched for good hits and the query sequence is re-run against these subdatabases to yield the final results.

The score over length cutoff for this search is 65.70

Examiner Please Note: This cover sheet should be included when submitting results to be scanned.



STANDARD FEEDBACK FORM

Questions about the scope or the results of the search? Contact *the searcher or contact:*

Mary Hale, Information Branch Supervisor
Remsen Bldg. 01 D86
571-272-2507

> I am an examiner in Workgroup: Example: 1610

> Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

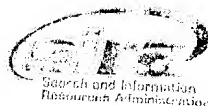
Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

> Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:



Schreiber, David

132912

From: Schultz, James
Sent: Monday, August 30, 2004 1:37 PM
To: Schreiber, David
Subject: score over length search request, 09/745,167

Hi David,
I need a score over length nucleotide sequence search on SEQ ID NO:47 in the above entitled case, which is a 20mer, and SEQ ID NO:3, which is 1512 nucleotides long. I need the lower and upper limits to be 8 and 50, respectively, I need any hits that are above 65% complementarity, and please transfer as many hits into the excel program as possible. Please do not search the interference databases at this time.
Thanks,
Doug Schultz

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